in nal Application No PCT/IB2004/052528

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 B01J19/00 C12Q1/68

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 $\begin{array}{ccc} \mbox{Minimum documentation searched (classification system followed by classification symbols)} \\ \mbox{IPC 7} & \mbox{B01J} & \mbox{C12Q} \end{array}$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, EMBASE, PAJ, WPI Data

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	MARTIN B D ET AL: LANGMUIR, vol. 16, 11 October 2000 (2000-10-11), pages 9944-9946, XP002316528 page 9944, right-hand column	1,2,4,6,
X	Z C LIU, Q G HE, P F XIAO, J X TANG, N Y HE, Z H LU: "Fixation and Shrinkage of Polyurethane Molecular Stamps used for the synthesis of DNA Microarray" IUMRS-ICEM 2002, XIAN, CHINA, 'Online! 10 June 2002 (2002-06-10), pages 433-441, XP002316530 Retrieved from the Internet: URL:http://nanotechweb.org/dl/nanomaterial s/Xian_article_35_was153529.pdf> 'retrieved on 2005-02-04! page 434	1,2,4-8

Further documents are listed in the continuation of box C.	X Patent family members are listed in annex.			
Special categories of cited documents: A document defining the general state of the art which is not considered to be of particular relevance E earlier document but published on or after the International filing date L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) O document referring to an oral disclosure, use, exhibition or other means P document published prior to the international filing date but later than the priority date claimed	 "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family 			
Date of the actual completion of the international search 15 February 2005	Date of mailing of the international search report 07/03/2005			
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Fax: (+31-70) 340-3016	Authorized officer Knudsen, H			

Inte nal Application No PCT/IB2004/052528

2.12	ALAN DOCUMENTO CONCIDENTE TO DE DEL SYANT	PC1/1B2004/052528	
C.(Continua Category °	Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT tegory Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No.		
	& TIEN N.C. & HUANG Q-A: PROC SPIE, 'Online! vol. 4601, October 2001 (2001-10), Retrieved from the Internet: URL:http://adsabs.harvard.edu/cgi-bin/nph- bib_query?bibcode=2001SPIE.4601412L& db_key=INST> 'retrieved on 2005-02-07!		
X	LEFAUX C.J. & MATHER P.T.: "Hydrogel Contact Deposition of Polymeric Multilayers" 59TH ANNUAL TECHNICAL CONFERENCE, SOCIETY OF PLASTICS ENGINEERS, 'Online! vol. 2, 2001, pages 1896-1900, XP002316531 Retrieved from the Internet: URL:http://www.ims.uconn.edu/{mather/Web%2 OResearch%20goals%20CL_files/SPE%202001%20-%20Preprint%20Contact%20ESA.pdf>'retrieved on 2005-02-04! page 1896, right-hand column, last paragraph - page 1897, left-hand column, paragraph 1	1-7	
X	US 2002/098364 A1 (BERNARD ANDRE ET AL) 25 July 2002 (2002-07-25) paragraphs '0048!, '0076!, '0083!, '0087!; table 1	1-3,5-7	
X	KÜNZLER T H: "Semester Thesis Advanced Microcontact Printing Using New Elastomeric Stamp Materials" 'Online! 4 August 2002 (2002-08-04), ETH ZÜRICH, ZÜRICH, XP002316532 Retrieved from the Internet: URL:http://www.textorgroup.ch/pdf/publications/semestertheses/11/Kuenzler_ST_SS2002.pdf> 'retrieved on 2002-02-03! page 8	1,2,4-8	
X	WO 02/099423 A (NANOTYPE GMBH; BLANK, KERSTIN; SPINNLER, KATRIN; MAI, THAO; OESTERHELT) 12 December 2002 (2002-12-12) page 8, paragraph 3	1,2,5-7	
X	US 5 948 621 A (TURNER ET AL) 7 September 1999 (1999-09-07) cited in the application column 3, paragraph 1; example 1	1,4-8	
X	DE 199 17 327 A1 (INSTITUT FUER MIKROTECHNIK MAINZ GMBH) 2 November 2000 (2000-11-02) column 3, lines 16-29	1,2,5-8	

ini nal Application No PCT/IB2004/052528

		PC1/1B2004/052528		
	ation) DOCUMENTS CONSIDERED TO BE RELEVANT			
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
Y	BELL C L ET AL: "Water, solute and protein diffusion in physiologically responsive hydrogels of poly(methacrylic acid-g-ethylene glycol)" BIOMATERIALS, ELSEVIER SCIENCE PUBLISHERS BV., BARKING, GB, vol. 17, no. 12, June 1996 (1996-06), pages 1203-1218, XP004032658 ISSN: 0142-9612 the whole document	1-8		
Υ	WARD J H ET AL: "Micropatterning of biomedical polymer surfaces by novel UV polymerization techniques." JOURNAL OF BIOMEDICAL MATERIALS RESEARCH. 5 SEP 2001, vol. 56, no. 3, 5 September 2001 (2001-09-05), pages 351-360, XP002317684 ISSN: 0021-9304 abstract	1-8		
Α	XIA Y ET AL: "SOFT LITHOGRAPHY" ANGEWANDTE CHEMIE. INTERNATIONAL EDITION, VERLAG CHEMIE. WEINHEIM, DE, vol. 37, 1998, pages 551-575, XP000985399 ISSN: 0570-0833 page 556, right-hand column	1-8		
Ρ,Χ	MAYER MICHAEL ET AL: "Micropatterned agarose gels for stamping arrays of proteins and gradients of proteins" PROTEOMICS, vol. 4, no. 8, August 2004 (2004-08), pages 2366-2376, XP009043500 ISSN: 1615-9853 the whole document	1-8		
Ρ,Χ	KIM Y. S., BAEK S.J., HAMMOND P. T.: "Physical and Chemical Nanostructure Transfer in Polymer Spin-Transfer Printing" ADVANCED MATERIALS, vol. 16, no. 7, 5 April 2004 (2004-04-05), pages 581-584, XP002316529 page 582, left-hand column, paragraph 1	1-8		
E	EP 1 491 254 A (MICRONAS GMBH; MICRONAS HOLDING GMBH) 29 December 2004 (2004-12-29) paragraph '0013!; figure 1	1-8		

Information on patent family members

Int 1al Application No PCT/IB2004/052528

	ent document n search report		Publication date		Patent family member(s)		Publication date
US 2	2002098364	A1	25-07-2002	EP JP JP	1193056 3496831 2002206033	B2	03-04-2002 16-02-2004 26-07-2002
WO (02099423	Α	12-12-2002	DE DE CA WO	10126798 10205418 2449224 02099423	A1 A1	19-12-2002 14-08-2003 12-12-2002 12-12-2002
US 5	5948621	Α	07-09-1999	NONE			
DE 1	19917327	A1	02-11-2000	NONE			
EP :	1491254	Α	29-12-2004	DE EP	10328730 1491254		03-02-2005 29-12-2004